	Application No.	Applicant(s)
Notice of Allowability	10/644,923	CHEN, SHIH-HUANG
	Examiner	Art Unit	
	ALEXANDER BOAKYE	2616	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to *11/02/2007*.

2. ☒ The allowed claim(s) is/are *1-5,22,23,6-20, 24,26; renumbered as 1-24 respectively.*.

3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

     a) ☐ All   b) ☐ Some*   c) ☐ None   of the:

         1. ☐ Certified copies of the priority documents have been received.

         2. ☐ Certified copies of the priority documents have been received in Application No. _____ .

         3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

     * Certified copies not received: _____ .

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.

5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.

     (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached

         1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.

     (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of
Paper No./Mail Date _____.

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).

6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☐ Notice of References Cited (PTO-892)

2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)

3. ☐ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date _____

4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material

5. ☐ Notice of Informal Patent Application

6. ☐ Interview Summary (PTO-413), Paper No./Mail Date _____ .

7. ☒ Examiner's Amendment/Comment

8. ☒ Examiner's Statement of Reasons for Allowance

9. ☐ Other _____.

EXAMINER'S AMENDMENT

1.   An examiner's amendment to the record appears below. Should the changes

and/or additions be unacceptable to applicant, an amendment may be filed as provided

by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be

submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview

with Mr. Jeffrey Richmond on 01/15/2008.

Claims 21, 25 and 27 have been canceled.

In the claims:

1.   (Currently amended) A method, comprising:

scanning an image with a plurality of sensing units; storing the scanned data associated

with the image to a plurality of memory cells; receiving a starting parameter to identify

at least one of the memory cells storing data associated with the scanned image ; and

sequentially reading the data stored in one or more of the memory cells, beginning with

the memory cell identified by the starting parameter; receiving an ending parameter to

identify another one of the memory cells; and sequentially reading data from one or

more of the memory cells, beginning with the memory cell identified by the starting

parameter and finishing with the memory cell identified by the ending parameter.

21.   Canceled.

22.   (Currently amended) The method of claim [21] 1 includes setting the ending

parameter according to a manual input.

23.   (Currently amended) The method of claim [21] 1 wherein the linear sensor

automatically generates the ending parameter.

24.   (Currently amended) A device comprising: a linear sensor having a plurality of

sensing units, configured in a linear arrangement, to detect at least one object; and

a plurality of memory cells to store the detected data associated with the object and allow

sequential access to the stored data according to the linear arrangement of the sensing units and a

starting parameter, the starting parameter to identify which memory cell is first in a sequence of

memory cells to be read; wherein the memory cells allow sequential access to the stored

data according to the linear arrangement of the sensing units, the starting parameter,

and an ending parameter, the ending parameter to identify which memory cell is last in

the sequence of memory cells to be read.

25.   Canceled.

26. (Currently amended) A system comprising: means for scanning an image with a

plurality of sensing units; means for storing the scanned data associated with the image

to a plurality of memory cells; means for receiving a starting parameter to identify at

least one of the memory cells storing data associated with the scanned image; and

means for sequentially reading the data stored in one or more of the memory cells,

beginning with the memory cell identified by the starting parameter ; wherein the

<u>memory cells allow sequential access to the stored data according to the linear</u>

<u>arrangement of the sensing units, the starting parameter, and an ending parameter, the</u>

<u>ending parameter to identify which memory cell is last in the sequence of memory cells</u>

<u>to be read.</u>

27.   Canceled.

REASONS FOR ALLOWANCE

2.   The following is an examiner's statement of reasons for allowance: Claims 1-20,

22-24, 26 are considered allowable since when reading the claims in light of the

specification none of the references of record alone or in combination disclose or

suggest the combinations of limitations specified in the independent claims. As to claims

1-5, 22 and 23, the prior art of record does not teach sequentially reading the data

stored in one or more of the memory cells, beginning with the memory cell identified by

the starting parameter ; receiving an ending parameter to identify another one of the

memory cells; and sequentially reading data from one or more of the memory cells,

beginning with the memory cell identified by the starting parameter and finishing with

the memory cell identified by the ending parameter. As to claims 6-9, the prior art of

record does not teach wherein an attached parameter L can also be received at the

same time to receive the parameter N, and L is a positive integer larger than N, wherein

by way of said attached parameter to stop reading unnumbered memory cells after reading the L-th one of memory cells in the linear arrangement order.

As to claims 10-18, the prior art of record does not teach connecting a 2-D sensor and receiving a specific amount of parameters, wherein said 2-D sensor is composed of a specific amount of linear sensors, and each said linear sensor has a plurality of memory cells arranged by linear order and each parameter is a positive integer corresponding to a single linear sensor; and proceeding the reading action of each the linear sensors from the first one, comprising: numbering the memory cells sequentially depending on linear arrangement order from the first memory cell until the (N-1)-th memory cell, wherein N is the parameter corresponding to the linear sensor; and reading the contents of the memory cells that are unnumbered in linear arrangement order sequentially.

As to claims 19-20, the prior art of record does not teach connecting a linear sensor and receiving a plurality of parameters, wherein the linear sensor has a plurality of memory ceils arranged in linear order and each the memory cell is independent from others, and each of the parameters is a positive integers; numbering the memory cells sequentially from a first memory cell of the linear sensor depending on linear arrangement order sequentially to find out a plurality of specific memory cells with numbers equal to the parameters, wherein the specific memory cells are paired off and each pair of the specific memory cells marks a specific memory cell section; and reading the specific memory cell sections sequentially depending on linear arrangement order. As to claims 24 and 26, the prior art of record does not teach wherein the memory cells allow sequential access to the stored data according to the linear arrangement of

the sensing units, the starting parameter, and an ending parameter, the ending parameter to

identify which memory cell is last in the sequence of memory cells to be read.   Any comments

considered necessary by applicant must be submitted no later than the payment of the issue fee

and, to avoid processing delays, should preferably accompany the issue fee. Such submissions

should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

3.   Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Alexander Boakye whose telephone number is (571)

272-3183. The examiner can normally be reached on M-F from 8:30am to 6:00pm. If

attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Chi Pham, can be reached on (571) 272-3179. The Fax number is (571)

273-8300.

Information regarding the status of an application may be obtained from the

Patent Application Information Retrieval (PAIR) system. Status information for

published applications may be obtained from either Private PAIR or PUBLIC PAIR.

Status information for unpublished applications is available through Private PAIR only.

For more information about the PAIR system, see http://pair-direct.uspto.gov. Any

inquiry of a general nature or relating to the status of this application or proceeding

should be directed to the **Electronic Business Center (EBC)** numbers at 866-217-

9197 and 703-305-3028.

Alexander Boakye

Patent Examiner

01/15/08
AB

CHI PHAM
SUPERVISORY PATENT EXAMINER
2/15/08